

**40365 Braithwaite, LA
Stolthaven Terminal Facility
Onsite Summary of Air Monitoring and Sampling Results
September 26, 2012
PO# 12-H0408-MR**

This data report discusses real-time air monitoring data collected within the work area between September 25th 00:00 and September 25th 23:59 in support of mitigation and remediation operations conducted near Stolthaven’s facility near Braithwaite, LA.

Real-time air monitoring conducted within the work area resulted in reports of detections exceeding the action level required for the donning of respiratory protection. If workers were present at the time of the action level exceedence, they donned respiratory protection. While stationary AreaRAE results indicate reported detections of VOCs at 11 locations within the work area, these results are preliminary and include drift in the instrument’s chemical sensors. If VOC detections were noted, CTEH[®] personnel were dispatched to the AreaRAE location for further evaluation. Three detections of LEL were reported in the work area; however, notes from CTEH[®] personnel indicate that that, on each occasion, sensor drift was confirmed. No detections of amines, chlorobenzene, formic acid, or methyl acrylate were noted.

Real-time air monitoring for VOCs, LEL, formic acid, methyl acrylate, amines, and chlorobenzene was conducted using stationary AreaRAEs and/or hand-held instruments such as the MultiRAE and colorimetric detector tubes. In addition to colorimetric detector tubes, a Multi-Rae (11.7 eV lamp) was utilized to monitor for formic acid in areas located near the formic acid scrubber. Table 1 and Table 2 display data summaries for hand-held instruments and AreaRAEs respectively. Table 3 highlights analytical sample counts collected in onsite air, soil and waste characterization. Appendix 1 shows incident site maps.

**Table 1
Hand-held Real-time Summary – September 25th 00:00 – 23:59**

Work Area				
Analyte	Number of Readings	Number of Detections	Average Concentration of Detections	Highest Concentration
Amines	3	0	NA	<0.5 ppm
Chlorobenzene	7	0	NA	<0.2 ppm
Formic Acid	17	0	NA	<0.52 ppm
LEL	957	3	4.0 %	4.0 %
Methyl Acrylate	14	0	NA	< 2.0 ppm
VOC	1137	8	0.5 ppm	1.4 ppm

NA = not applicable

* In addition to the tabulated real-time data, additional air monitoring for the purpose of worker protection was performed throughout the work area. These data are used for task-specific decision-making, but may not be recorded in the tabulated data represented above.

**Table 2
AreaRAE Summary – September 25th 00:00 – 23:59**

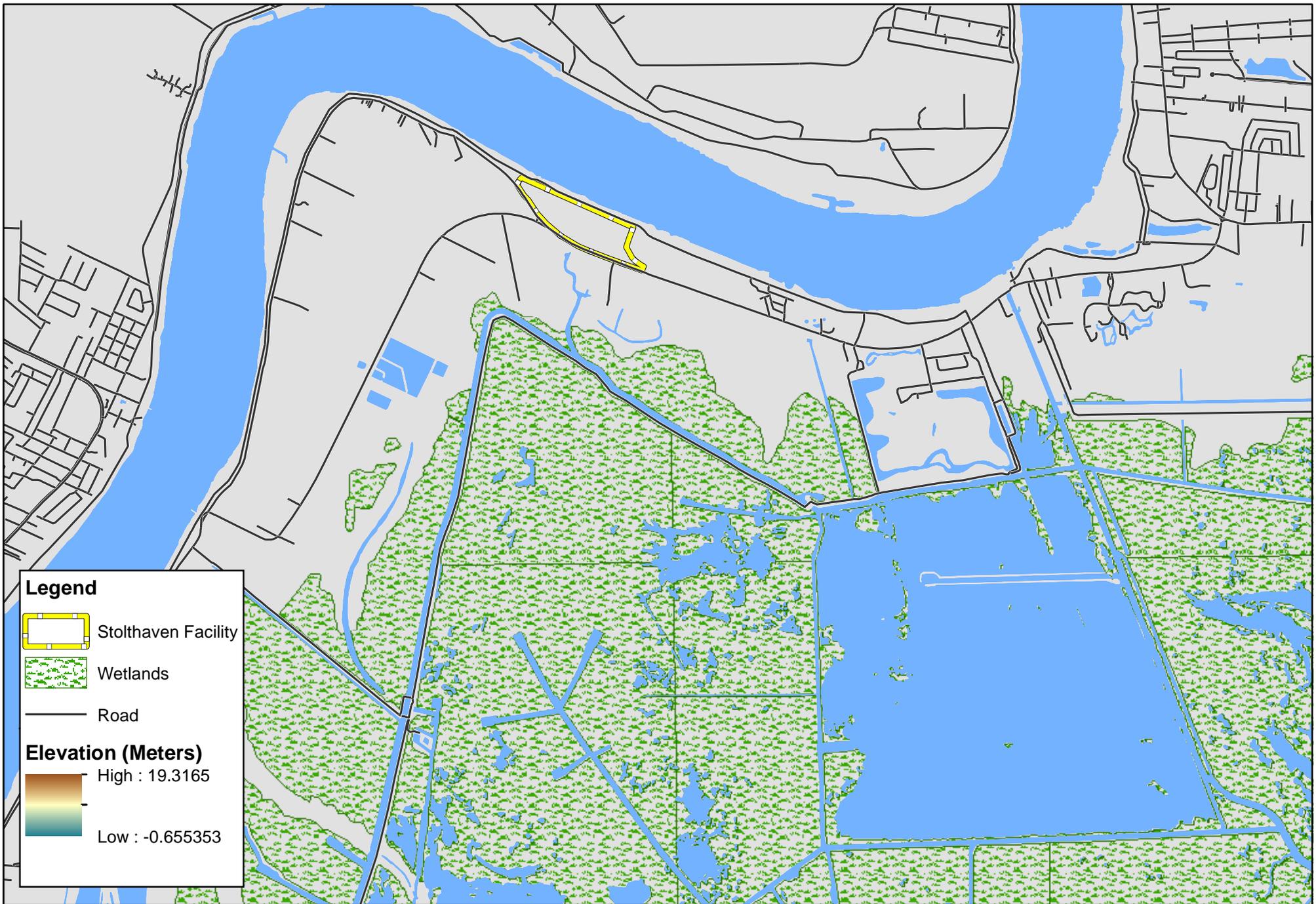
Unit	Analyte	Number of Readings	Number Of Detections	Concentration Range
Unit 14	LEL	5120	0	0 - 0 %
	VOC	5120	13	0.2 - 0.8 ppm
Unit 15	LEL	5193	0	0 - 0 %
	VOC	5193	72	0.1 - 2.5 ppm
Unit 16	LEL	5338	0	0 - 0 %
	VOC	5338	115	0.1 - 0.4 ppm
Unit 17	LEL	5261	0	0 - 0 %
	VOC	5261	311	0.1 - 1.4 ppm
Unit 18	LEL	5377	0	0 - 0 %
	VOC	5377	0	0 - 0 ppm
Unit 19	LEL	5203	0	0 - 0 %
	VOC	5203	101	0.1 - 1.8 ppm
Unit 20	LEL	5062	0	0 - 0 %
	VOC	5062	141	0.1 - 1.2 ppm
Unit 21	LEL	5136	0	0 - 0 %
	VOC	5136	257	0.1 - 4.3 ppm
Unit 22	LEL	5372	0	0 - 0 %
	VOC	5372	22	0.1 - 0.2 ppm
Unit 23	LEL	4608	0	0 - 0 %
	VOC	4608	483	0.1 - 2 ppm
Unit 24	LEL	5368	0	0 - 0 %
	VOC	5368	691	0.1 - 3.1 ppm
Unit 25	LEL	5226	0	0 - 0 %
	VOC	5226	13	0.1 - 25.8 ppm

***Detections may include drift events** - Drift is defined as any interference in the electrochemical sensor's ability to accurately report the concentration of a chemical in the atmosphere. Humidity and temperature changes throughout the monitoring period are typical sources of drift.

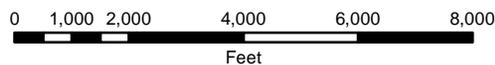
Table 3
Analytical Sample Counts – September 25th 00:00 – 22:59

Matrix	Number of Samples
Air	5
Soil	5
Waste Characterization	4
Waste Water	6
Product Quality	26

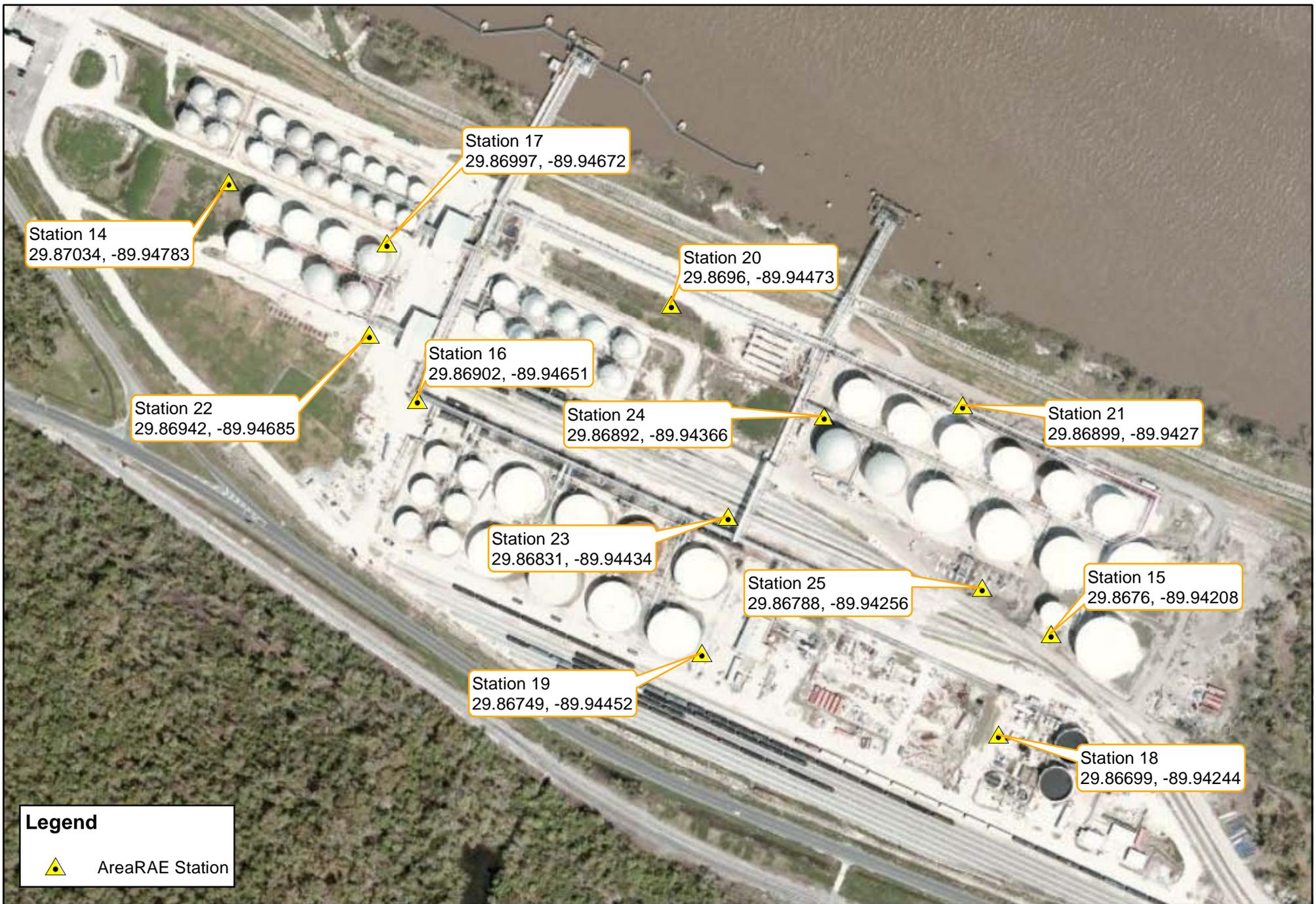
Appendix 1: Incident Maps



**Stolthaven Facility
Shaded Relief of Elevation**



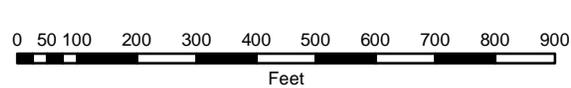
	Stolthaven Braithwaite, LA
	Project No. 40365
	Plaquemines Parish Print Date: 9/26/2012



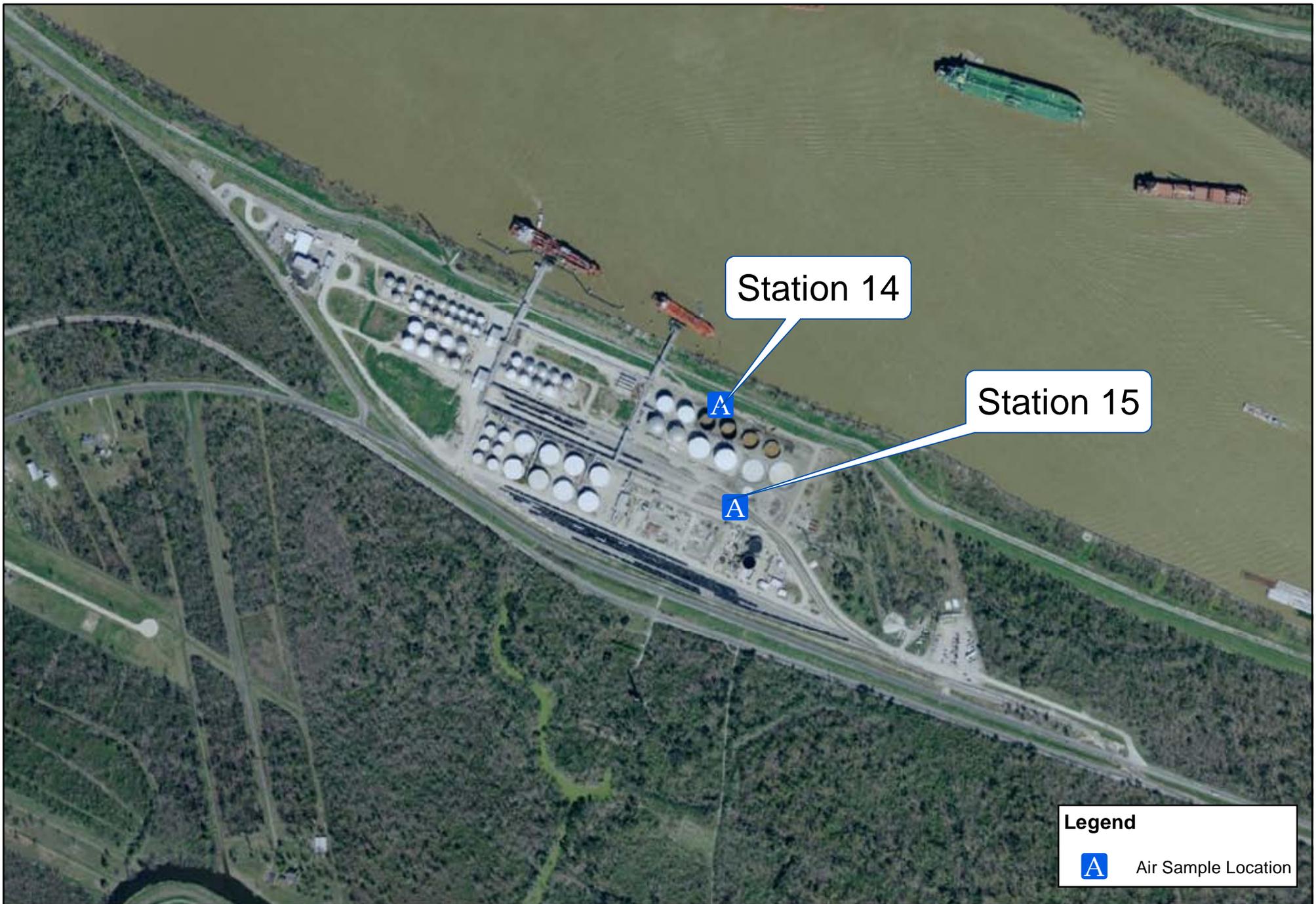
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 AreaRAE Station

Work Area
AreaRAE Station Locations
 September 21, 2012



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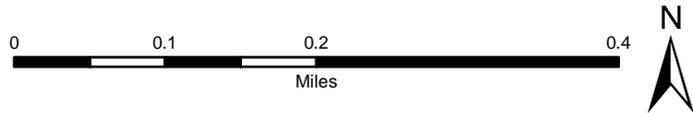
Station 14

Station 15

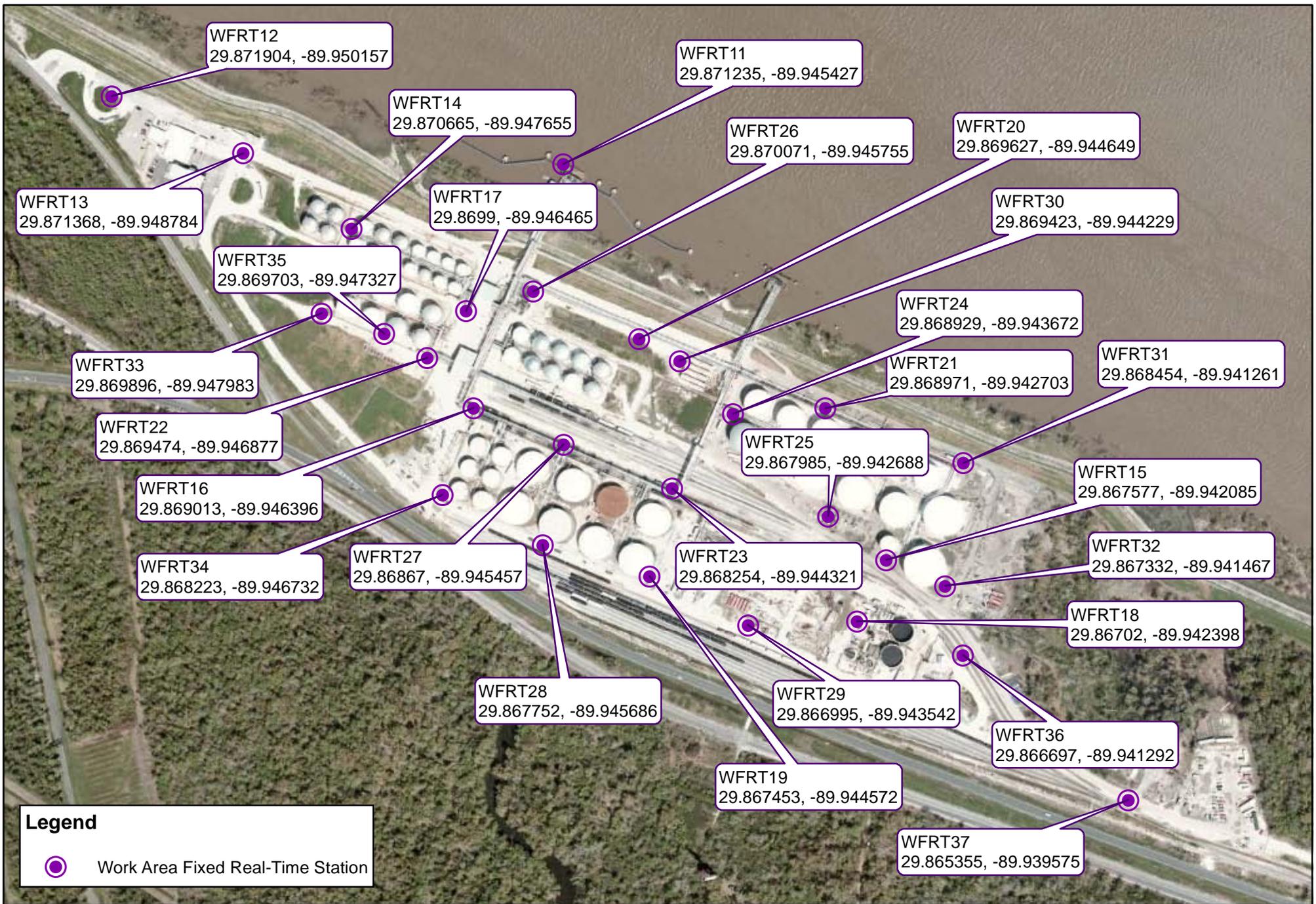
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 Air Sample Location

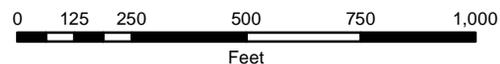
**Ambient Air
Analytical Sampling Locations**



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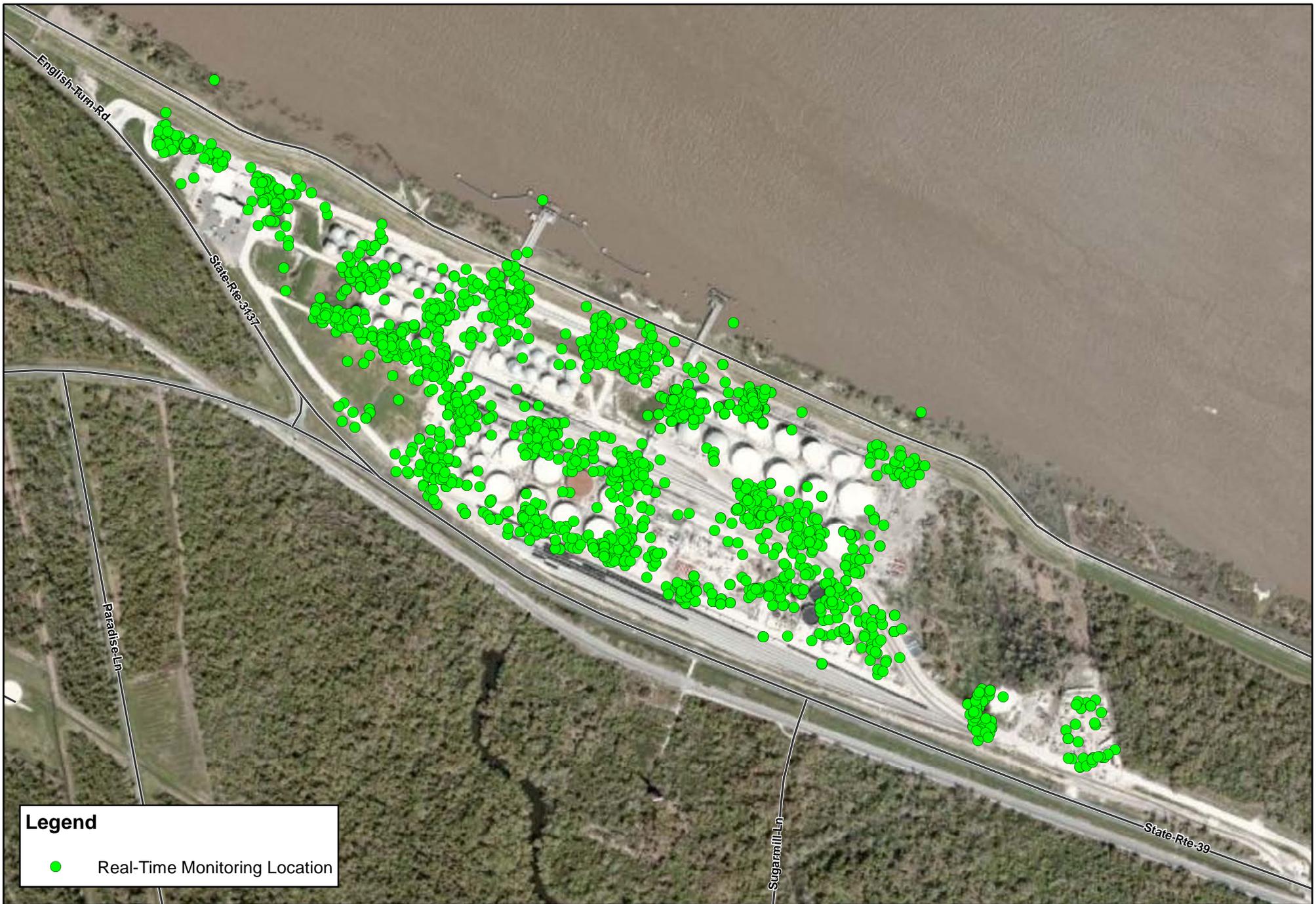


**Work Area
Fixed Real-Time Station**
September 21, 2012



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Legend

- Real-Time Monitoring Location

Work Area
Real-Time Monitoring Locations
 9/25/2012



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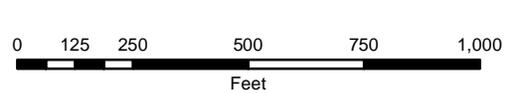


Legend

VOC Concentration

- <0.1 ppm
- 0.1 - 2 ppm
- 2 - 10 ppm
- 10 - 40 ppm
- >40 ppm

**Manually-Logged
Work Area VOC Concentrations**
9/25/2012



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